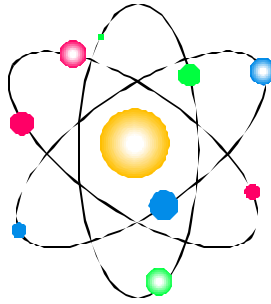


PROJECT ATOMS



AUTOMOTIVE (AUTO) ESSENTIAL MATHEMATICS SKILLS

		VIDEO TAPE		
SKILLS	TEXT	FULL TITLE	ABBREVIATION	SOFTWARE TITLE
A. (1) Whole Numbers and Variable Expressions				
(1.1) Introduction to whole numbers Order relation between whole numbers Place value Applications	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 1 section 1 PreAlgebra by Martin/Gay (VISIT MATH LAB)	#1 Place Value and Reading Tables		Passkey Lessons Whole Numbers Place Value and Reading Tables

		VIDEO TAPE		
SKILLS	TEXT	FULL TITLE	ABBREVIATION	SOFTWARE TITLE
(1.2) Addition and subtraction of whole numbers Addition of whole numbers Subtraction of whole numbers Applications and formulas	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 1 section 2 PreAlgebra by Martin/Gay (VISIT MATH LAB)	#1 Adding Whole Numbers And Perimeter #1 Subtracting Whole Numbers		Passkey Lessons Whole Numbers Adding Whole Numbers And Perimeter Subtracting Whole Numbers
(1.3) Multiplication and Division of Whole Numbers Multiplication of whole numbers Exponents Division of whole numbers Factors and prime factorization Applications and formulas	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 1 section 3 PreAlgebra by Martin/Gay (VISIT MATH LAB)	#2 Multiplying Whole Numbers And Area #2 Dividing Whole Numbers		Passkey Lessons Whole Numbers Multiplying Whole Numbers And Area Dividing Whole Numbers
(1.4) Rounding and Estimation Rounding Estimation Applications	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 1 Section 4 PreAlgebra by Martin/Gay (VISIT MATH LAB)	Approximation, Rounding, Estimation (MTH 107) #1 Rounding And Estimating	Approximation, Rounding, Estimation (MTH 107)	Passkey Lessons Whole Numbers Rounding And Estimating

SKILLS	TEXT	VIDEO TAPE		SOFTWARE TITLE
		FULL TITLE	ABBREVIATION	
(1.5) The Order of Operations Agreement The order of operations agreement	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 1 section 5 PreAlgebra by Martin/Gay (VISIT MATH LAB)	The Order Of Operations Agreement - Whole Numbers Expressions #4 Order Of Operations	Order of Oper & $ax+b=c$	Algebra Mentor Lessons 59-67 The Order Of Operations Agreement Passkey Lessons Order Of Operations Exponents And Order Of Operations

(2) Integers				
(2.1) Introduction to integers Integers and the number line Order relations between integers Opposites Absolute value Applications	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 2 section 1 PreAlgebra by Martin/Gay (VISIT MATH LAB)	#3 Introduction to Integers		Introduction to Integers
(2.2) Addition and subtraction of integers Addition of integers Subtraction of integers Applications and formulas	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 2 section 2 PreAlgebra by Martin/Gay (VISIT MATH LAB)	Adding and Subtracting Integers #3 Adding Integers Subtracting Integers	Adding & -Int. Ordr Oper	Algebra Mentor Lessons 2-31 Addition & Subtraction of Integers Passkey Lesson M1311

SKILLS	TEXT	VIDEO TAPE		SOFTWARE TITLE
		FULL TITLE	ABBREVIATION	
(2.3) Multiplication and Division of integers Multiplication of integers Division of integers Applications	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 2 section 3 PreAlgebra by Martin/Gay (VISIT MATH LAB)	#3 Multiplying and Dividing Integers		Passkey Lesson M1311 Multiplication & Division of Integers
(2.4) The order of operations agreement The order of operations agreement	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 2 section 4 PreAlgebra by Martin/Gay (VISIT MATH LAB)	Order of Operations Integers #4 Order of Operations	Adding & -Int. Ordr oper	Algebra Mentor Lessons 59-65 The Order of Operations Agreement

(3) Fractions				
(3.1) Least common multiple and greatest common factor Least common multiple (LCM) Greatest common factor (GCF) Applications	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 3 section 1 PreAlgebra by Martin/Gay (VISIT MATH LAB)			Algebra Mentor Lessons 157-160 Least Common Multiple & Greatest Common Factor Passkey Lessons Fractions
(3.2) Introduction to fractions Proper fractions, improper fractions, mixed numbers Equivalent fractions Order relations between two fractions Applications	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 3 section 2 PreAlgebra by Martin/Gay (VISIT MATH LAB)	Math: Fractions & Decimals (F11)	Math: Fractions & Decimals (F11)	Algebra Mentor Lessons 158-160 Passkey Lessons Fractions Introduction to Fractions

		VIDEO TAPE		
SKILLS	TEXT	FULL TITLE	ABBREVIATION	SOFTWARE TITLE
(3.3) Addition and subtraction of fractions Addition of fractions Subtraction of fractions Applications and formulas	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 3 section 3 PreAlgebra by Martin/Gay (VISIT MATH LAB)	Addition and Subtraction of Signed Fractions Addition and Subtraction of Mixed Numbers Math: Fractions & Decimals (F11) #6 Adding And Subtracting Fractions With Least Common Denominators Adding And Subtracting Fractions With Unlike Denominators	Addition & -MXD Frac,Exp Addition & - of Sgnd Frac Math: Fractions & Decimals (F11)	Passkey Lessons Fractions Addition & Subtraction Of Fractions Adding And Subtracting Fractions With Least Common Denominators Adding And Subtracting Fractions With Unlike Denominators
(3.4) Multiplication and division of fractions Multiplication of fractions Division of fractions Applications and formulas	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 3 section 4 PreAlgebra by Martin/Gay (VISIT MATH LAB)	Math: Fractions & Decimals (F11) #6 Multiplying And Dividing Fractions	Math: Fractions & Decimals (F11)	Passkey Lessons Fractions Multiplication & Division Of Fractions Multiplying And Dividing Fractions

		VIDEO TAPE		
SKILLS	TEXT	FULL TITLE	ABBREVIATION	SOFTWARE TITLE
(4) Decimals and Real Numbers				
(4.1) Introduction to decimals Place value Order relations between decimals Rounding Applications	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 4 section 1 PreAlgebra by Martin/Gay (VISIT MATH LAB)	Approximation, Rounding, Estimation (MTH 107) #7 Introduction To Decimals	Approximation, Rounding, Estimation (MTH 107)	Passkey Lessons Decimals Introduction To Decimals
(4.2) Addition and subtraction of decimals Addition and subtraction of decimals Estimation Applications and formulas	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 4 section 2 PreAlgebra by Martin/Gay (VISIT MATH LAB)	#8 Adding And Subtracting Decimals MATH: Fractions & Decimals (F11)	MATH: Fractions & Decimals (F11)	Passkey Lessons Decimals Adding And Subtracting Decimals
(4.3) Multiplication and divisions of decimals Multiplication of decimals Division of decimals Fractions and decimals Applications and formulas	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 4 section 3 PreAlgebra by Martin/Gay (VISIT MATH LAB)	#8 Multiplying Decimals And Circumference Of A Circle Dividing Decimals MATH: Fractions & Decimals (F11)	MATH: Fractions & Decimals (F11)	Passkey Lessons Decimals Multiplication And Division Of Decimals Multiplying Decimals And Circumference Of A Circle Dividing Decimals
(4.4) Radical Expressions Square roots of perfect squares Square roots of whole numbers Applications and formulas	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 4 section 4 PreAlgebra by Martin/Gay (VISIT MATH LAB)	Rational Exponents & Radicals (Tape #1) Rational Exponents & Radicals (Tape #2) #9 Square Roots and Pythagorean Theorem	Rational Exponents Radicals	Algebra Mentor Lessons 225-227 Passkey Lessons Exponents and Square roots Square Roots and Pythagorean Theorem

		VIDEO TAPE		
SKILLS	TEXT	FULL TITLE	ABBREVIATION	SOFTWARE TITLE
(5) Variable Expressions				
(5.1) Properties of real numbers Application of the properties of real numbers The distributive property		Properties of Real Numbers (Distributive Property)	Properties, Reals, Simp Exp	Properties of Real Numbers

(7) Ratio and Proportion				
(7.1) Ratio and rates Ratio and rates Dimensional analysis Applications		#11 Ratios		Ratio, Proportion, And Measurement
(7.2) Proportion Proportions Applications		#11 Proportions		Proportion

(8) Percent				
(8.1) Percent Percents as decimals or fractions Fractions and decimals as percents		Converting Percent/Fractions/Decimals #13 Percents, Decimals, and Fractions	Converting %/Frac/Dec	Percent Passkey Lessons Percents Percents, Decimals, and Fractions
(8.2) The basic percent equation The base percent equation Percent problems using proportions Applications		The Basic Percent Equation #13 Percent Equations and Problem Solving	Converting %/Frac/Dec	The Basic Percent Equation Passkey Lessons Percents Percent Equations and Problem Solving

		VIDEO TAPE		
SKILLS	TEXT	FULL TITLE	ABBREVIATION	SOFTWARE TITLE
(9) Geometry				
(9.1) introduction to geometry Problems involving lines and angles Problems involving angles formed by intersecting lines Problems involving the angles of a triangle				Passkey Lessons Geometry Introduction to Geometry
(9.2) Plane geometric figures Perimeter of a plane geometric figure Area of a plane geometric figure	PreAlgebra by Martin/Gay	#1 Adding Whole Numbers and Perimeter #10 Area and Volume		Passkey Lessons Geometry Adding Whole Numbers and Perimeter Area and Volume

B. (3) Exponents and Polynomials				
(3.1) Natural number exponents				Algebra Mentor Lesson 50-55 Natural Number Exponents Passkey Lessons Exponents
(3.2) Integer exponents		Integer Exponents	Integer Exponents	Passkey Lessons Exponents Integer Exponents

D. (1) Arithmetic				
(1.11) Arithmetic with calculators				

		VIDEO TAPE		
SKILLS	TEXT	FULL TITLE	ABBREVIATION	SOFTWARE TITLE
(2) Units of Measurement and Approximate Numbers				
(2.1) Units of measurement: The Metric System				Passkey Lessons Measurement
(2.2) Reduction and conversion of units				Passkey Lessons Measurement
(2.3) Approximate numbers and significant digits		Approximation, Rounding, Estimation (MTH 107)	Approximation, Rounding, Estimation (MTH 107)	
(2.4) Arithmetic operations with approximate numbers				

(4) Introduction to Algebra				
(4.1) Literal numbers and formulas				
(4.2) Basic algebraic expressions				Passkey Lessons M1371

		VIDEO TAPE		
SKILLS	TEXT	FULL TITLE	ABBREVIATION	SOFTWARE TITLE
(5) Simple Equations and Inequalities				
(5.1) Solving a simple equation		Introduction to Solving Linear Equations Addition Property of Equations Multiplication Property of Equations Solving Linear Equations of the form $ax+b=c$ Solving Linear Equations in one variable The Equalizer	Introduction Solv Lin Eq Order of Oper & $ax+b=c$ Solving Linear Eq - 1 var The Equalizer	First Degree Equations of the Form $ax+b=c$ Introduction to Equations Combining Properties to Solve Linear Equations General First Degree Equations Algebra mentor Lessons 197-203 Passkey Lessons Equations
(5.2) Simple formulas and literal equations				Algebra Mentor Lessons 210-213

		VIDEO TAPE		
SKILLS	TEXT	FULL TITLE	ABBREVIATION	SOFTWARE TITLE
A. (3) Fractions				
(3.5) Exponents, complex fractions, and the order of operations Agreement Exponents complex fractions The order of operations agreement	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 3 section 5 PreAlgebra by Martin/Gay	Fractions, Exponents, Complex Fractions, and the Order of Operations and Agreement #7 Complex Fractions and Review of Operations #2 Exponents and Order of Operations	Addition & -Mxd #; Frac, Exp	Algebra Mentor Lessons 50-55 Lessons 175-180 Lessons 59-65 Exponents, Complex Fractions, Order of Operations; Passkey Lessons Order of Operations; Passkey Lessons Exponents/Square Roots; Complex Fractions and Review of Operations Exponents and Order of Operations

		VIDEO TAPE		
SKILLS	TEXT	FULL TITLE	ABBREVIATION	SOFTWARE TITLE
(4) Decimals and Real Numbers				
(4.5) Real numbers Real numbers and the real number line Inequalities in one variable Applications	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 4 section 5 PreAlgebra by Martin/Gay (VISIT MATH LAB)	Naturals, Real Numbers (MTH 106)	Naturals, Real Numbers (MTH 106)	Passkey Lessons Inequalities Inequalities
(5) Variable Expressions				
(5.2) Variable expressions in simplest form Addition of like terms General variable expressions	PreAlgebra by Martin/Gay	Simplifying Variable Expressions #4 Simplifying Algebraic Expressions	Properties; Reals; Simp Exp	Algebra Mentor Lessons 93-94 Lessons 95-106 Variable Expressions in Simplest Form Simplifying Algebraic Expressions
(6) First-Degree Equation				
(6.1) Introduction to equations Solutions of an equation Equations of the form $x+a=b$ Equations of the form $ax=b$		Introduction to Solving Linear Equations- Addition prop of Equations- Multiplication property of Equations #5 Solving Linear Equations In One Variable And Problem Solving	Introduction to Lin Eq	Algebra Mentor Lessons 197-209 Passkey Lessons Equations Introduction to equations Solving Equations And Problem Solving

		VIDEO TAPE		
SKILLS	TEXT	FULL TITLE	ABBREVIATION	SOFTWARE TITLE
(6.2) First-degree equations of the form $ax+b=c$ Applications		Solving Linear Equations of the Form $ax+b=c$	Order of oper & $ax+b=c$	First Degree Equations of the form $ax+b=c$ Passkey Lessons Equations Algebra Mentor Lessons 197 - 209
(6.3) General first-degree equations Equations of the form $ax + b = cx + d$ Equations with parentheses Applications		Solving Linear Equations in One Variable The Equalizer	Solving Linear Eq - 1 Var. The Equalizer	Passkey Lessons Equations General First Degree Equations Algebra Mentor Lessons 197 - 209

(9) Geometry

(9.3) Triangles The Pythagorean Theorem Similar triangles Congruent triangles	PreAlgebra by Martin/Gay	#9 Square Roots and Pythagorean Theorem #11 Problem Solving with Proportion and Similar Triangles		Passkey lessons Geometry Square Roots and Pythagorean Theorem Problem Solving with Proportion and Similar Triangles
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		VIDEO TAPE		
SKILLS	TEXT	FULL TITLE	ABBREVIATION	SOFTWARE TITLE
B. (2) Linear Equations and Inequalities in One Variable				
(2.1) Algebraic expressions and combining like terms		Introduction to Solving Linear Equations Addition Property of Equations Solving Linear Equations in One Variable	Introduction to Solv Lin Eq	First Degree Equations of the form $ax + b = c$ General First Degree Equations Passkey Lessons Equations
(2.2) The additive property of equality		Introduction to Solving Linear Equations - Addition Property Prop of Equations	Introduction to Solv Lin Eq	Algebra Mentor Lessons 197-201 Introduction to Equations Passkey Lessons Equations
(2.3) The multiplicative property of equality		Introduction to Solving Linear Equations- Multiplicative Prop of Equations Solving Linear Equations in the form $ax + b = c$	Introduction to Solv Lin Eq Order of Oper & $ax + b = c$	Algebra Mentor Lessons 197-201 Introduction to Equations Passkey Lessons Equations
(2.4) combining properties to solve linear equations		Solving Linear Equations In One Variable The Equalizer	Solving Linear Eq - 1 Var The Equalizer	General First Degree Equations of the form $ax + b = c$ Combining Properties to Solve Linear Equations Passkey Lessons Equations

		VIDEO TAPE		
SKILLS	TEXT	FULL TITLE	ABBREVIATION	SOFTWARE TITLE
(2.7) Applications of linear equations		Solving Word Problems With Linear Equations	Solving Wrđ Prob - Lin Eq	Applications of Linear Equations Passkey Lessons Word Problems

(3) Exponents and Polynomials

(3.3) Adding and subtracting polynomials				
(3.4) Multiplying polynomials		Special Products	Special Products	Algebra Mentor Lessons 116-124 Multiplying Polynomials Passkey Lessons Polynomials
(3.5) The FOIL method and special products of binomials		Special Products	Special Products	Algebra Mentor Lessons 116-121 The Foil Method and Special Products of Binomials Passkey Lessons Polynomials
(3.6) Dividing polynomials		Division of Polynomials	Division of Polynomials	Passkey Lessons Polynomials

(4) Factoring Polynomials				
(4.9) Applications of quadratic equations		Applications Using the Quadratic Formula Solving Word Problems With Quadratic Equation	Applications Using Quad Solv Wrđ Prob - Quad Eq	Applications of Quadratic Equations Passkey Lessons Quadratic Equation

		VIDEO TAPE		
SKILLS	TEXT	FULL TITLE	ABBREVIATION	SOFTWARE TITLE
(6) Graphs of Linear Equations				
(6.2) The Cartesian Coordinate Syst		Cartesian Coordinate System	Cartesian Coor & Rel & Func	Algebra Mentor Lessons 80-85 Passkey Lessons Graphing
(6.3) Graphing linear equations		Linear Functions	Function Not & Lin Func	Algebra Mentor Lessons 80-85 Graphing Linear Equations Passkey Lessons Graphing
(6.4) The slope of a line		Linear Functions	Function Not & Lin Func	Passkey Lessons Graphing

(9) Quadratic Equations				
(9.4) The Quadratic Formula		Solving Quadratic Equations Using the Quadratic Formula	Solving Quad Eq - Quad for	The Quadratic Formula Passkey Lessons Quadratic Equations